STATE BUILDING CODE COUNCIL

Log No. <u>14-09</u>

1. Sta	ate Building C	ode to be Amended:							
	Internation	onal Building Code		State Energy Code					
	☐ ICC ANS	SI A117.1 Accessibility Code	\boxtimes	International Mechanical Code					
	Internation	onal Existing Building Code		International Fuel Gas Code					
	Internation	onal Residential Code		NFPA 54 National Fuel Gas Code					
	Internation	onal Fire Code		NFPA 58 Liquefied Petroleum Gas Code					
	Uniform	Plumbing Code		☐ Wildland Urban Interface Code					
	Section(s): 2012 IMC Se Title: Wholehouse	ections 403.8.7.2 and 403.8.9.2							
	wholehouse	ventuation							
2. Pr	-	e (Specific local government, o	0	•					
	Proponent: Title:	Eric Vander Mey, PE, Rush Principal	ing Comp	any					
	Date:	2/28/2014							
3. De	esignated Cont	act Person:							
	Name:	Eric Vander Mey							
	Title:	Principal							
	Address:	ldress: 1725 Westlake Ave N, Suite 300, Seattle, WA 98109							
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4. Proposed Code Amendment. Reproduce the section to be amended by underlining all added language, striking through all deleted language. Insert <u>new</u> sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code additional pages may be attached. (Examples on the SBCC <u>website</u>)

Code(s) 2012 IMC Washington State Amendment Section(s) 403.8.7.2 and 403.8.9.2

Amend section to read as follows:

connection.

403.8.5.1 Outdoor air. Outdoor air shall be distributed to each habitable space.

Where outdoor air supply intakes are separated from exhaust vents by doors, means shall be provided to ensure airflow to all separated habitable spaces by installing distribution ducts, installed grilles, transoms, doors undercut to a minimum of 1/2-inch above the surface of the finish floor covering, or other similar means where permitted by the International Building Code.

403.8.7.2 Whole house forced-air system. Where outdoor air is provided to each habitable dwelling unit or sleeping unit by a forced-air system, the outdoor air duct shall be connected to the return air stream at a point within 4 feet upstream of the forced-air unit. It shall not be connected directly to the forced-air unit cabinet in order to prevent thermal shock to the heat exchanger. At a minimum, filtration of the outdoor air shall be provided at the forced airunit. The filter shall be accessible for regular maintenance and replacement. The filter shall have a Minimum Efficiency Rating Value (MERV) of at least 6.

Each habitable space in the dwelling or sleeping unit shall be served by a forced-air system with outdoor air

403.8.9.2 Whole house heat recovery ventilator system. Where outdoor air is provided to each habitable dwelling unit or sleeping unit by heat recovery or energy recovery ventilator the outdoor air shall be filtered. The filter shall be located on the upstream side of the heat exchanger in both the intake and exhaust airstreams with a Minimum Efficiency Rating Value (MERV) of at least 6. The system filter may be located at the intake device or inline with the fan. The filter shall be accessible for regular maintenance and replacement. Each habitable space in the dwelling or sleeping unit shall be served by a heat recovery ventilator system with outdoor air connection.

5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed. Specifically note any impacts or benefits to business, and specify construction types, industries and services that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

Amendment is needed to clarify that the each habitable space in the dwelling or sleeping unit must be served by the forced-air system or energy recovery ventilator. Systems are being designed that do not serve all the habitable spaces and there some portion of the unit does not directly receive outdoor air as required by the mechanical code.

This was be a point of confusion with mechanical designers. Code officials have been inconsistent with enforcing the requirement for the ventilation to serve each habitable space to ensure proper wholehouse system operation.

6.	Specify what criteria this proposal meets. You may select more than one.							
	The amendment is needed to address a critical life/safety need.							
	The amendment is needed to address a specific state policy or statute.							
	The amendment is needed for consistency with state or federal regulations.							
	The amendment is needed to address a unique character of the state.							
	The amendment corrects errors and omissions.							
7.	Is there an economic impact: Yes No Explain:							
	Negative economic impact if not adopted. Code language improves code enforcement across Washington State.							

If there is an economic impact, use the Table below to estimate the costs and savings of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance. If preferred, you may submit an alternate cost benefit analysis.

	Construction ¹		Enforcement ²		Operations & Maintenance ³	
Building Type	Costs	Benefits ⁴	Costs	Benefits ⁴	Costs	Benefits ⁴
Residential						
Single family	N/A	N/A	N/A	N/A	N/A	N/A
Multi-family						
Commercial/Retail	N/A	N/A	N/A	N/A	N/A	N/A
Industrial	N/A	N/A	N/A	N/A	N/A	N/A
Institutional	N/A	N/A	N/A	N/A	N/A	N/A

Please send your completed proposal to: sbcc@ga.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.

¹ \$ / square foot of floor area or other cost. Attach data. **Construction** costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.

² Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and other action required for enforcement.

³ Cost to building owner/tenants over the life of the project.

⁴ Measurable benefit.